

ABSTRACT OF THE DISCLOSURE

A negative-working photosensitive resin composition is disclosed, comprising (A) a film-forming polymer, (B) an unsaturated compound having a radical polymerizable ethylenic double bond, (C) a photopolymerization initiator, and (D) a thermal polymerization inhibitor, wherein the resin composition further contains (E) at least one member selected from compounds represented by following formula (I):



wherein -X represents $-OR^2$, $-COOH$, $-SO_3H$, $-CONHR^2$, $-COR^2$, $-SO_2NHR^2$, $-HNCONHR^2$, or $-HNCOOR^2$; R^1 and R^2 , which may be the same or different, each represents a hydrogen atom, a substituted or unsubstituted, saturated or unsaturated hydrocarbon group, provided that it does not contain a radical polymerizable ethylenic double bond, a substituted or unsubstituted alicyclic hydrocarbon group, a substituted or unsubstituted aromatic hydrocarbon group, or a heterocyclic group; they may have an ether bond in the chain, provided that when -X is $-OH$, then R^1 represents a group other than a hydrogen atom and an aromatic hydrocarbon group, in a range of 0.001 - 0.3 wt% based on the weight of the photosensitive resin composition. A photosensitive resin plate using the photosensitive resin composition is also disclosed. By this invention, a negative-working photosensitive resin composition particularly excellent in the reproducibility of the highlight areas and the independent fine lines and having the deep non-printing depth and good resolving properties, and a photosensitive resin plate using the resin composition are provided.